

Notice of Allowability

Application No.

09/825,636

Applicant(s)

THOMPSON, SCOTT D.

Examiner

Brandon J. Miller

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/21/2007.
2. ☒ The allowed claim(s) is/are 2-29, 31-36, 40-44.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
- ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- ☐ Notice of Informal Patent Application
- ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
- ☒ Examiner's Amendment/Comment
- ☒ Examiner's Statement of Reasons for Allowance
- ☐ Other _____


GEORGE ENG
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

Response to Amendment

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John J. Elnitski, Jr. on 5/29/2007.

The application has been amended as follows:

Claim 31 should be amended to read:

31 (currently amended) A wireless network system comprising:

 a communication hub linked to a source;

 at least one remote station which communicates with said communication hub in order to exchange information with the source, each of said at least one remote station including a directive antenna and a remote station address;

 a multi-beam antenna connected to said communication hub to allow the exchange of information between said communication hub and each of said at least one remote station, said multi-beam antenna producing a plurality of beams for such exchange of information, wherein each beam

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of said plurality of beams is assigned to one of said at least one remote station;

a beam former linked between said hub and said multi-beam antenna; and an Ethernet switch within and part of said hub linked between the source and said beam former to provide automated switching capability between said source and said each beam of said plurality of beams to allow automated selection of a beam of said plurality of beams by one of said at least one remote station addresses.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

Regarding claim 8 the prior art does not teach or fairly suggest a wireless network system comprising: a communication hub linked to a source; at least one remote station which communicates with said communication hub... a multi-beam antenna connected to said communication hub... and an Ethernet switch within and part of said hub which is linked between the source and said multi-beam antenna to provide automated switching capability between said source and said each beam of said plurality of beams to allow automated selection of a beam of said plurality of beams by one of said at least one remote station address.

Claims 2-7 and 9-29 are allowable based on their dependence of independent claim 8.

Regarding claim 31 the prior art does not teach or fairly suggest a wireless network system comprising: a communication hub linked to a source; at least one remote station which

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communicates with said communication hub... a multi-beam antenna connected to said communication hub... a beam former linked between said hub and said multi-beam antenna; and...and an Ethernet switch within and part of said hub which is linked between the source and said multi-beam antenna to provide automated switching capability between said source and said each beam of said plurality of beams to allow automated selection of a beam of said plurality of beams by one of said at least one remote station address.

Claims 32-36 are allowable based on their dependence of independent claim 31.

Regarding claim 41 the prior art does not teach or fairly suggest a method of a source communicating with a plurality of remote stations... a communication hub linked to a source; at least one remote station which communicates with said communication hub... a multi-beam antenna connected to said communication hub... linking each of said at least one remote station to one of said plurality of beams; coordinating sending and receiving of the information between the source and remote station by way of the plurality of beams using the hub; and an Ethernet switch within and part of said hub and linked between the source and said beam former to provide automated switching capability between said source and said each beam of said plurality of beams to allow automated selection of a beam of said plurality of beams by one of said at least one remote station address.

Claims 42-44 are allowable based on their dependence of independent claim 31.

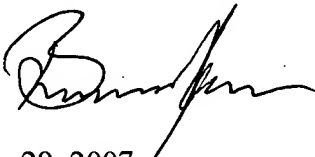
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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

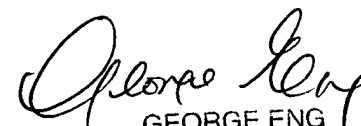
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brandon J. Miller whose telephone number is 571-272-7869. The examiner can normally be reached on Mon.-Fri. 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



May 29, 2007



GEORGE ENG
SUPERVISORY PATENT EXAMINER